PRACTICE TEST SCIENCE INQUIRY TASK STUDENT ANSWER BOOKLET

GRADE 4 SCIENCE

STUDENT NAME:	
SCHOOL NAME:	
DISTRICT NAME:	
	(PLEASE PRINT)





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Organizing and Presenting Your Data

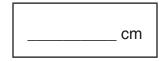
Directions:

Copy your data from your Student Task Booklet to the boxes below.

A. What number best describes the measurement on the ruler where you stopped the one magnet?



B. What number best describes the measurement on the ruler where you stopped the **three** magnets?



C. What number best describes the measurement on the ruler where you stopped the **five** magnets?



1. Use the data you recorded in the boxes on page 2 to make a bar graph below. Make sure your graph includes a title. Title: Ruler Measurement (cm) **Number of Magnets**

Developing Explanations

Will putting magnets together make a difference in the distance needed to attract objects?

2.	Look at your data. What did you discover about the relationship between the number of magnets and the distance needed to attract objects? Use your data to support your answer.
3a	Look back at your prediction on page 2 in your Student Task Booklet. Look at your data. Does your data support your prediction?
	Yes
	□ No
3b	• Use your data to explain your thinking.

Critiquing an Investigation

4a.	In your investigation, why was it important to hold the magnets the same way for each trial?
4b.	What might have happened if the magnets were held differently in one of the
	trials?
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studer e large	nts observed that the construction worker used the magnet to pick up some objects r than the objects you used in your investigation. The students were surprised wher
studer e large structic	nts observed that the construction worker used the magnet to pick up some objects rethan the objects you used in your investigation. The students were surprised when on worker's magnet picked up a large hammer. Predict how many magnets you would need to pick up a large hammer and

6.	Think of an experimental question (cause and effect) about magnets that the students at Lincoln School might investigate. Write your new question below.
7.	What information would need to be collected to answer your new question?
8.	The students are confused when they see a construction worker use a magnet both to pick up a small, closed cardboard box off the ground and to drag a large cardboard box along the ground. What is a possible explanation for what the students saw?

